

# WARCI NEWS



Volume 23

September 2020

Issue 4



### **How Good Is Your Tube Tester?**

# **Next WARCI Meet:**

# November Meeting Canceled

"WARCI" is having an Online "Zoom" video conference to supplement in-person meets during the COVID-19 pandemic.

**Check the flyer on page 4 for** "WARCI First Zoom Meeting"

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#### **About WARCI**

The Wisconsin Antique Radio Club, Inc. exists to preserve the history and enhance the knowledge of radio, television and other related disciplines, promote fellowship and the exchange of ideas and experience between antique radio collectors. We have a special interest in the history of radio in our home state of Wisconsin: Wisconsin radio companies and their radios, Wisconsin radio stations, etc. Our members' interests include radio (encompassing transmitters, earphones, speakers, antennas, tubes, batteries, components, etc as well as receivers), television, audio, and antique phonographs.

Individual memberships are \$15 for the calendar year (January – December), including a subscription to the WARCI News.

WARCI holds six swap meets in the Milwaukee-area each year, in January, March, June, July, September and November. The seller's fee at Swap Meets is \$7.00 for members, \$10 for non-members. Additional swap meets in May and August are hosted by the Madison chapter of WARCI and follow the same schedule. Swap meet times are 8:00AM - 11:00AM for Milwaukee-area meets, and 8:30AM - 11:30 AM for Madison-area meets. Doors open at the posted time for set-up. Check the WARCI website for the most up-to-date meet schedule.

WARCI publishes the WARCI News five times per year (January, March, May, July, and September) in PDF or hard copy. The newsletter reports on club activities, includes articles contributed by members, photos from club swap meets, news and events of neighboring clubs including ARCI, NARC, and MARC, and members' classified ads.

The club operates the WARCI website at www.warci.org. The website features information on club activities and a growing compilation of information about Wisconsin radio companies and their radios, including photographs and WARCI News articles about the companies. The intent is to gradually develop an overall history of radio in Wisconsin, its companies, broadcasting stations, etc. Back issues of the WARCI News and the Battery Set Compendium are also available for download from the website. WARCI is also on Facebook.

Contact one of the WARCI Board Members below for more information about WARCI.

### WARCI Officers and Board (2020)

President - Nicholas Tillich, president@warci.org, (262)271-1564

Vice President -- Terry Hanney, earlyradiosets@gmail.com, (414)429-4405

Secretary -- Mike Sajdowitz, msajdowitz1@gmail.com

Treasurer - Ed Kozak, ejkozak@elknet.net

Board Members -- Jim Menning, Dale Boyce, [Position Available!]

WARCI News Editor - Mike Sadjowitz, msajdowitz1@gmail.com

Webmaster -- Nicholas Tillich, webmaster@warci.org

# WARCI NEWS AND DOINGS

### **WARCI News**

This newsletter is the official publication of the Wisconsin Antique Radio Club, Inc. It is published five times per year, in January, March, May, July and September. In November a post card announcing the up coming years swap dates will be mailed. The WARCI News is free to all paid-up club members.

The entire contents of this publication are copyright ©2020 Wisconsin Antique Radio Club, Inc. unless specifically marked otherwise. Generally, all articles in the WARCI News may be reprinted, provided specific permission is first obtained from the Editor (and copyright holder, if not WARCI) and full credit is given. Articles or material for the newsletter are most welcome and should be sent to msajdowitz1@gmail.com or W220 N2716 Maplewood Ln, Waukesha, Wi 53186. Include your name, address, phone, and email. PDF format (e.g. MS Word) by email is preferred. JPEG for images is preferred. Please contact Mike Sajdowitz for assistance.

Classified ads up to ½ page are free to WARCI members. The cut-off date for all newsletter material is about the 15th of the month preceding publication of the next news -letter (e.g. December 15 for the January issue.)

"Do to the coronavirus, the WARCI is monitoring the situation very closely and will keep the club informed (via email, post card, and updates to WARCI.org) if any changes to our meet schedule should be necessary. Thank you for your understanding."

### **Notice of WARCI Board Meetings**

WARCI holds Board Meetings after all of it's Milwaukee –area radio meets. The Board Meetings generally start around 11AM and all current WARCI members are encouraged to attend. This is your opportunity to see how the club is run and provide your valuable input. In addition, WARCI's Annual Business Meeting is held every year in November, concurrent with our annual elections.

We look forward to seeing you!





Stream our Podcast for on demand listening!

https://nostalgiaradiotime.podomatic.com/

NOSTALGIA RADIO TIME IS ON THE AIR!

Legendary singers, big bands, and personalities from the 1930's to the 50's and beyond, along with Classic Old Time Radio Show Broadcasts

NostalgiaRadioTime@yahoo.com Look for us on Facebook & Twitter

### **WARCI's First Zoom Meeting**

WARCI will be holding its first online video meeting on:

Sunday, October 25th, 2020 9:00AM – 10:30AM





WARCI members are encouraged to join our first online radio swap and share! Do you have a radio or radios that you'd like to sell? This is your opportunity! Each WARCI attendee will be given a 2 minute spot to advertise items for sale to the group.

To encourage participation, WARCI is also hosting an online people's choice contest. The contest category for this meeting is **Bakelite Radios**. Each attendee will be allowed 60 seconds to present their favorite radio. A vote will be taken to capture the favorite, with **the winner receiving a \$25 VISA Gift Card!** 

A link to register for the meeting will be sent out to your email address in October. If WARCI does not have your current email address, please contact Nick at webmaster@warci.org to update your information.

#### **Tentative Agenda:**

8:45AM: Pre-meeting to check your connection and video settings

9:00AM: Meeting starts. Nick will give an overview of Zoom features.

9:10AM: Nick will present: Advertising Radio in the Chicago Tribune – 1938

**9:30AM**: Online Radio Swap Meet / Open Forum **10:00AM**: People's Choice Contest: Bakelite Radios

10:30AM: Meeting Ends

#### **Future Meeting Topics:**

Do you have a topic you'd like to present? If so, please contact Nick at webmaster@warci.org. This is a great opportunity to share a favorite item in your collection from the safety of your own home! We're looking for the following:

- A presentation on your favorite radio (PowerPoint or live)
- Radio repair topics, restoration chronicles
- Virtual tour of your collection
- Other ideas welcome!

#### **Technical Details:**

This Zoom meeting requires that you install the Zoom application on your PC, Mac, or smart phone. For more tips on joining a Zoom meeting, visit the Help center at Zoom.us and read the article "Joining a meeting": https://cutt.ly/gfJ9dig

If you would like to participate in our meeting, please check that your microphone works in advance! There is a link on this page to enter a test meeting where you can check your computer webcam and microphone functionality. See you in October!

## How Good Is Your TubeTester?

### BY BRIAN BELANGER

Tube testers can be the cause of heated disagreements. I recall distinctly an unfortunate situation a few years ago. "MAARC member A" sold some expensive tubes to "MAARC member B." They tested good on member A's tube tester, but when member B tested them on his tube tester, he got a different result, indicating that they were not good. The resulting argument created hard feelings on the part of both parties. Radio Age has run several informative articles about tube testing in recent years. This article probably repeats some points made in those other articles. But like our need to visit our houses of worship regularly to be reminded about what we need to do to live better lives, we probably need to be reminded often about how easily it is to be deceived by tube testers.

Tube testers vary greatly in performance, are often difficult to calibrate, and certainly are not precision instruments. Even if a tube tester had been calibrated at one time, its readings can shift with age as resistors change in value and as switch contacts oxidize and corrode. Many tube testers have vacuum tubes inside and they can degrade over time, affecting the readings.

As I was browsing books and magazines recently added to the library at the National Capital Radio & Television Museum, I came across a newsletter-type publication called Tube Tips, published by CBS-Hytron. The 12 issues I perused (undated, but probably circa 1960) contained several interesting articles by Bud Tomer, reminding readers about the limitations of tube testers. The author mentioned that the U.S. military had spent considerable sums of money trying to "differentiate between a potentially bad tube and one which can be expected to give continued useful service." In spite of that research, "they seem to be no nearer to a broad solution to the problem today than they were several years ago." Tomer says most tube testers "make some tubes look better than they are and they make other tubes look poorer than they are."

Tomer correctly points out that tube testers, other than incredibly expensive laboratory-type ones, usually do not test tubes under the operating conditions they would experience in real-world applications. In undergoing tests, elements may be tied together, and so plate and screen voltages and bias voltages may not simulate at all what the tube would see in actual usage. Of course even an inexpensive tester can usually determine if there is a gross short between elements or if the emission is so low that the tube could not possibly work. But that is only part of the problem.

In a batch of supposedly identical tubes from the same factory, the performance of the individual tubes can vary over some range due to small variations in dimensions and element spacing. For a company with good quality control, the range would be smaller than for a company with sloppy quality control. For a parameter such as transconductance, we would expect to see the transconductance values for a batch of tubes falling on a normal curve of distribution, with most tubes having values clustered around a mean value, but with some well above average and some well below average. A reputable company would test all the tubes and those falling below a minimum acceptable value would not be sold.

Whether a tube is "good enough" depends on the circuit in which it is used. Some circuit designers used conservative designs such that a tube could be fairly far out of spec and the circuit would still function just fine, whereas other designers would use a tube in a circuit that pushed the tube to, or even beyond, its normal operating limits, such that a tube used in that circuit would need to be better than average to work reliably. Tomer cites the example of IF amplifiers in some television sets: "In order to obtain a particularly sharp drop in the gain characteristics of the receiver when operated in high signal areas and prevent overload of the final IF stage, some equipment manufacturers have required that only those tubes representing a small part of the normal distribution for the cutoff characteristic could be shipped to them for use in their IF stages. When replacing this type of tube, dealers sometimes find that it is necessary to go through quite a number of tubes in their stock before finding one which will restore the set to its original condition."

Old-time service techs sometimes took the position that if you knew what you were doing, you did not even need a tube tester. If your troubleshooting led you to conclude that a tube was probably the source of the problem, you just substituted another tube to see whether that cleared up the problem. A not-uncommon situation calling for that approach is a shortwave radio where the oscillator cuts out at the highest frequencies. To service such a radio, old-timers might just keep substituting oscillator tubes until one worked.

Tubes from different manufacturers may have slightly different construction of the elements, and that can make a difference. For example, two tubes from two different companies might have about the same transconductance, but one might have slightly different

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inter-electrode capacitances, and that can affect performance in critical high frequency circuits. Tomer says that tubes such as the 6AF4 used in many UHV converters are at the limit of their frequency range when operated at UHF, and no ordinary tube tester, even a good transconductance tester, is equipped to ascertain the maximum frequency at which a particular tube is capable of operating. Tomer says even a transconductance tube tester "throws very little light on the question of whether a tube of this particular type is going to work at ultra-high frequencies.

We all agree that a transconductance tester is a better choice than an emission tester for most tubes, but in the case of rectifier tubes, transconductance has no meaning. Tomer argues that for many television tubes that serve as oscillators or pulse amplifiers, transconductance is *not* the parameter that determines how well the tube will work.

Tomer also asserts that some tube testers can actually damage delicate tubes. Emission testers sometimes use rather high cathode currents, and so tubes with small cathodes and close grid-to-cathode spacing may not

stand up well to emission testing. He recommends that emission testers not be used for testing tubes used in TV tuners and UHF converters, as well as the auto radio tubes that used 12 volts on the plate, because testing them may shorten their lives by as much as 50 percent. Tomer: "If the service dealer resorted to an emission type of tube tester in pretesting 6AF4 tubes, he probably was unwittingly guilty of having contributed very much to the early life failure of that tube."

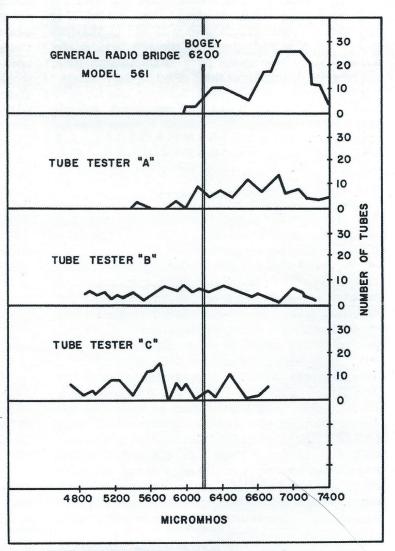
Another challenge is to measure leakage. If a tube has a dead short between two elements that are not supposed to be connected together, that is, of course usually a reason to reject the tube. (However, there are detector circuits in which the two plates of, for example, a 6H6 are connected together at the tube socket, so even if the tube tester finds that the two plates are shorted inside the tube, you need not throw it out because the tube would probably still work fine in that circuit.) If there is leakage between elements, e.g., heater to cathode leakage, how much such leakage can be tolerated? The answer depends on the circuit in which the tube is used. If a radio has hum and you think it could beheater to cathode leakage in an audio tube, the easiest way to check is to try another tube.

One of the most interesting articles by Tomer is one in which he describes an experiment in which his laboratory took a batch of 400 type 6CB6 pentode tubes, 100 of each from four prominent tube suppliers. The transconductance

spec for these tubes was 6200 micromhos. The tubes were tested on four different tube testers. A recently calibrated General Radio Bridge Model 561 was used as an example of a high quality instrument. Three other more typical transconductance type tube testers ("A," "B,", and "C") of the type that a TV service shop might use, tested the same tubes and the results were plotted. The figure is reproduced here. As you can see, the results are dramatic. With the General Radio Bridge, nearly all the tubes were above the nominal value of 6200. With tester "C," most of the tubes tested below 6200. Presumably, the testers used were all relatively new ones in good condition. If this same experiment were done with typical tube testers like those used today by MAARC members that are perhaps 60 years old, and may have not been calibrated recently, the results might have shown even more differences.

The bottom line is, don't be too confident that the old tube tester you purchased at a MAARC meeting is giving you accurate results, or that any tube tester can check every factor that affects the performance of a tube in any circuit.

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In the years since I began working on old radios, I have accumulated several tube testers, and wherever possible, I like to test a given tube on more than one tester to see if I got the same result. People who deal in high-end expensive audio tubes sometimes purchase modern state-of-the-art digital readout IC-based tube testers that sell for four-figure prices. I have yet to purchase one. At present, I own only two tube testers: a military TV – 7U and a Sencore MU-150. The TV-7U test older tubes such as 01A's and 45s up through early miniatures, whereas the Sencore tests later tubes such as Compactrons. (The Sencore is interesting in that it does both emission tests and transconductance tests.) Most octal tubes and some miniatures can be tested on both, and so I often try testing a given tube on both testers to compare results. MAARC Member and tube tester expert Paul Hart calibrated my TV-7U. With his calibration service he provides two check standard tubes— a 6L6 and the 6AU6. Every now and then I measure these two tubes, and as long as the readings have not changed, it gives me confidence that the testers performance has not deteriorated.

The nice thing about the Sencore is that the company is still in business. I sent my tube tester to Sencore's factory and they calibrated it and sent it back. So, when I do not assume that every tube I test is accurately evaluated, I am striving to be conscientious about doing what I can to check tubes properly. Like the old-time techs, if I suspect a particular tube may be causing trouble, I substitute another to see whether that clears up the problem. The only downside of that approach is that you need to keep a lot of tubes on hand!

Article is from radio age volume 42, August 2017, page 13

Remember that classified ads up to about 1/4 page are free to WARCI members

The cut-off date is the 15th of the month prior to the publication. Example( The July 2017 Issue means articles have to be to me by 15 June). Send ads by email or mail

To: Mike Sajdowitz, WARCI Editor, W220 N2716 Maplewood Ln, Waukesha, WI 53186 or msajdowitz1@gmail.com

Wanted: All things Hallicrafters! Receivers, transmitters, accessories, television sets, test equipment, signs, books, etc. Also silver-Marshall (1933-34) and Echophone. Stan Broome, 108 East Main Street, Sun Prairie, WI 53590 1-608-658-6107.

Training - Michael Lewis 6070 County Rd. D, or Oregon, WI 53575 Phone: 608-835-7193, email: deepheart@att.net

I have over 30 years experience in electronically restoring antique radios(I don't restore radio cabinets). For most of this time I've also taught others how to do radio restoration. I can be hired for 4 or 8 hour blocks of bench time. You will have access to DMM's, digital audio and RF generators, capacitor and indoor analyzers, power supplies, and much other test equipment. I stock 1/4, 1/2, 1, 2, 5, and 10w resistors. Capacitor stock includes 75 values of mylars, micas, and ceramics; electronics from 25 WVDC to 450 WVDC. Tubes are available to my students as well as technical literature including a Ryder, Beltman, and Gernsback manuals, factory manuals, and Sam's Photofacts. Whether you never soldered before, or regularly restore radios & are stuck on a "tough dog" chances are I can help.

WANTED: Parts: Carl Zimm, beampowered-tetrode@yahoo.com

- Volume brass bezel for Zenith 701, 8" speaker for Philco 20, Crosley 59 chassis for Oracle, AK 80 or 90 chassis.
- For sale; McMurdo- Silver amp for Masterpiece

WANTED: Tom Fickau@cs.com

Late 50's Early 60's Magnavox majestic or Concert Grand console unit.

Call: Tom Fickau (414) 801-0652

#### WANTED: by Dale Boyce, Email: radioman@wi.rr.com, 414 840-4146

- 1. Briggs & Stratton Corporation, Milwaukee, WI (BASCO) radio equipment from 1922- 1937. Catalogs, complete or incomplete crystal radios, tube type radios, radio frequency transformers, earphones, tube sockets, crystal detectors, vernier rheostats, fixed resistors, multi-plate variable condensers, fixed capacitors, literature, advertising, parts boxes, battery eliminators (radio power units types "A", "B", "A+B"), push button tuners, promotional items etc. Please check your boxes of radio parts and your literature files. Also wanted: radios such as Globe Electric, Monroe McKillip and others which utilize BASCO radio parts.
- 2. 1920s tube type radios, amplifiers and radio parts boxes, advertising, promotional items, etc. made by Allen Bradley Company, Milwaukee, Wisconsin.
- 3. 1920s Crystal radios, tube-type radios, advertising and promotional items made by Sunlight Radio, Milwaukee, Wisconsin.
- 4. 1920s Julius Andrae and Sons Co (JASCO) Crystal radios, radio catalogs, radio equipment and promotional items made by Andrae Electric, Milwaukee, Wisconsin.
- 5. 1920s horn and cone type radio speakers made by Milwaukee companies including G&G Radio company, GEMCO, Granolite Art Products, Yahr-Lange, and others.
- 6. Individual and boxed sets of 1920s Brightson Blue radio tubes distributed by Yahr-Lange, Milwaukee, Wisconsin.

### WANTED: Parts and Literature: Glenn Trischan 414 357-7024, gnets142@att.net, P.O. Box 240022, Milwaukee, Wi 53224

- Cylindrical Federal#35 RF transformer or similar,3/8"L x 1 1/8" diameter, to studs/nuts on each end.
- Centralab catalogs from 1960s 1980s. Central Radio Laboratories/Centralab parts 1920s 1980s.
- Catalogs/literature/photos of any age from Marsh Radio/Electronics in Milwaukee.
- JMP Products or literature including Submariner and wave meter.
- Set of concentric tuning knobs for Crosley model 725 or clear photo of same.
- Set of Shortwave &, Television Laboratories, Boston, 4 pin coil set (red, blue/black, brown, green) or individual coils.
- Always seeking Wisconsin made radios, especially Globel Electric, Advanced Electric, and Fidelity/New England Mills.

#### **Advertise with WARCI**

Adds up to 1/4 page may be placed in the WARCI news free of charge for WARCI members Ad's larger then a quarter page are available at the rates outlined below: 1/4 Page free (members only) 1/2 page \$15/issue/\$60/year (5 Issues)

Full Page \$25/Issue, \$110/year (5 Issues)



### Dennis Schrank

Collector of Old Microphones and Radios

### **Buy Sell Trade**

(414) 744-3374 radio1938@gmail.com



### Electric Guru Parts House

We sell and buy vacuum tubes, electronic test equipment and radio equipment

David Whitham PO Box 212

Phone: 262-833-7999 Web: www.electricgurupartshouse.com

Franksville, WI 53126 Email: info@electricgurupartshouse.com





'ello, 'ello.

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Collector of: Vintage Radios • Tubes Advertising



**Rick Gantner** 

Phone: 1-262-284-3337 Email Paparick146@yahoo.com

Wanted By: Phillip Drexler,

Phone: 1-651-[redacted], Email: [redacted].com

Klitzen model 125 detector amplifier.

Please see page 170 of vol. 2 of

"Radio Manufacturers of the 1920's"

by A. Douglas for a picture. Two type R-11 (five to one ratio) All American open frame Audio transformers.



Member Dave Stout from the Milwaukee area has the following for sale: 1936 Zenith 6-S-52 Console Radio, GREAT condition, plays. \$175 1941 Philco 41-265 Console, plant stain on top, refurbished in 1993. \$60 If you're interested in either of these radios, call Dave at (262)305-9741.





# WARCI SERVICES

This page contains classified ads from recent articles of WARCI News, the club newsletter. Classified ads are free up to 1/4 page for WARCI members. Classifieds will also be posted on a regular basis. The cut-off date for all newsletter material is the first of the online preceding publication of the next newsletter (e.g. April 1st for the May ismonth sue). Ads may be emailed to: webmaster@warci.org.

### **WARCI Radio Services**

The following is a list of WARCI members willing to provide repair/restoration services, advice, or research.

WISCONSIN RADIO RAPAIR SERVICES					
NAME	LOCATION (WI)	EMAIL	TELEPHOE	SERVICE(s) AVILABLE	
Forrest Anderson all ages, old TV Rep	Oconomowoc air, Some cabinet rest	jmander@wi.rr.com toration, over 40yrs experience	920 474-3643	Radio repair	
Dwight Church	West Allis	(NONE)	414 545-6972	Radio Repair- Electronics only	
Bill Engaas	Menominee Falls	craftyradioBK@yahoo.com	414 217-6001	Speaker Repair	
Mike Lewis	Oregon	deepheart@att.net	608 835-7193	Training	
Ben Bensaid	Elkhorn	RegalSoundDesign@gmail.com	262 581-5453	Repair and restoration	
Bill Callaway Vintage Clock and	Mattoon Antique Radio Serv	pitboxer3@live.com vice Website: callawayclockanda	715 571-4304 antiqueradioser	Repair - all vice.com	

## **ONLINE WANT ADS**

FOR SALE: Grandfather clock radio, serviced and working great. Radio can be viewed on YouTube here: https://youtu.be/Y1RTGBiCl-s If interested, make an offer. Call Frank Prince 262-639-9307.

**FOR SALE:** 



**WANTED**: I'm looking for the following items. Call Frank Prince at 262 639-9307

- 1970's LED Watches
- Philco 90 Chassis
- Zenith 15-U-270 and other large tube count radios.

**WANTED:** DVD Recorder, working condition w/remote. Call Ben D. 262 412-6208 or Mike Piering 262 344-3302

**FOR SALE:** Electrovoice 18W(wide) bare floor Speaker, Brand New. Asking \$250. or close offer. Contact Ron Z. c/o 2860 Hwy K, Franksville, WI 53126 (no phone)

**WANTED:** Large Stromberg Carlson floor standing cone speaker. Contact Grant Steger 920 344-2155

WANTED: Any Lincoln, Sargent or Postal radios. RCA AR-60, RCA AR-67 or National AGS Communications receivers. Hammarlund SP-50 console radio, RCA AVR-5-A general Purpose receiver. Call Tony Peterson (763) 4223-8889 or Email: ton10291@comcast.net

**WANTED:** Atwater Kent Model M Speaker, Atwater Kent Model 55 Chassis, contact Cedric Fry at: caf53813@gmail.com

**WANTED:** Dial glass below for 1941 Philco console radio models 41-295, 41-300, 41-315, 41-316, 41-616. Measures 10.12" W x 2.38" H. Also looking for pushbuttons for the same model. Call Ben at (262)412-6208 Mike Piering at (262)344-3302.



# "GROUP OF GUYS" ANTIQUE RADIO RUMMAGE SALE

FOR LOVERS OF OLD TIME RADIOS!

SATURDAY, OCTOBER 24th, 2020 9:00 A.M. TO 12:00 P.M.

9012 W STUTH AVE, WEST ALLIS WI

(RAIN DATE SUNDAY OCTOBER 25th, 2020)

A "Group of Guys" will hold an outdoor radio rummage sale featuring radios and everything for radios from the 1920's to the 1960's!

RADIOS: WOOD RADIOS, BAKELITE RADIOS, PLASTIC RADIOS, TRANSISTOR RADIOS, TABLE RADIOS, AND FLOOR MODEL RADIOS, INCLUDING RADIOS MADE BY ZENITH, PHILCO, STEWART WARNER, ATWATER KENT, STROMBERG CARLSON, SILVERTONE, AND MANY MORE!

PARTS: SPEAKERS, TUBES, CHASSIS, KNOBS, CABINETS,



AND SO MUCH MORE! GET THE PARTS YOU **NEED TO FINISH THAT PROJECT NOW!** 

### **YOU WON'T WANT TO MISS THIS EVENT!**

At the time of this notice, the City of West Allis is allowing neighborhood rummage sales.

We ask that you wear a mask when you are six feet or less from other participants.

Thank you!

### Wisconsin Antique Radio Club, Inc. | www.warci.org

September 24th, 2020

WARCI Members,

As mentioned in my previous letter, our annual election of officers will occur through mail this year. Per the WARCI Bylaws (available at http://warci.org/join/), the club must hold an annual business meeting to elect officers and board members. Since we cannot safely meet in person, the WARCI board has agreed to conduct our first vote-by-mail election of officers and board members. In the fall, members who have paid their dues for 2020 will receive a ballot for the following positions:

- President
- Vice President
- Treasurer
- Secretary
- Board Member (3 Positions)

Since we have not received any interest in the aforementioned positions, I'm extending the deadline for submissions! If you are interested in running for any of the positions outlined above, please submit your intent to run in writing to the WARCI board (via mail or email to president@warci.org) by October 1st, 2020.

Ballots will be mailed out in early November with return postage included. All members are encouraged to cast their vote and return their ballots in a timely fashion. Ballots must be postmarked by December 1st 2020 to be counted.

On behalf of the WARCI board, I would like to wish you and your family the best of health and we thank you for your patience as we navigate the ongoing COVID-19 situation. We look forward to seeing you (in-person!) in 2021.

Nick Tillich **WARCI** President president@warci.org